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WELL NO. ROZEL STATE #1 SEC. 8, T.08N, R.07W BOX ELDER COUNTY, UTAH API NO. 43-003-15583

NOTES MADE FROM OLD WELL FILE COVER - SOME AREAS VERY HARD TO READ.

KEY IN A 4TH NORTH FENCE POST JEAN DARLTON - 484-7532 OFFICE - 295-5557 (WOODSCROSS)

HARRY JAMES REYNOLDS ACTUAL OPERATOR & LEASE OWNER 4340 WOODMAN AVE SHERMAN LAKE, CALIF.

AN ATTEMPT WAS MADE TO INSPECT THE STATUS OF THE WELL. ACCESS TO THE AREA COULD NOT BE GAINED DUE TO THE ROAD BEING BLOCKED WITH A CABLE WIRE.

THE CABLE WAS IN PLACE WITH A LOCK THAT NEEDED A KEY TO OPEN.

A NO TRESPASSING SIGN WAS NEARBY WHICH WAS BY SIDE OF WALLACE HUNSAKER - 2. 7. 92656 (HONEYVILLE) . PICTURES WERE TAKEN OF THE VICINTY FOR POSTERITY - PMB

CALLED MR. HUNSAKER FROM BRIGHAM CITY BUT NO ONE ANSWERED. SINCE LOCATION IS ABOUT 92 MILES AND IT WAS GETTING DARK, THE TRIP WAS CURTAILED UNTIL CONTACT WOULD BE MADE TO HAVE GATE OPENED.



Lazy ble



PNB

STATE OF UTAH

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Charles E	. King					9. WELL NO.	
3. ADDRESS OF OPERATOR						1	
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	eport location clearly and					Rozel Field	
NW/4 SE	/4 SE/4 Section 8	•				11. SEC., T., R., M., OR B AND SURVEY OR ARI	LK. Ba
At proposed prod. zon				south line		Sec. 8 T8N	
	AND DIRECTION FROM NEA					12. COUNTY OR PARISH	
	wouthwest of Br	gham City,				Box Elder	Utah
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4202' grou	ınd level					June 25,	1964
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SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH		QUANTITY OF CEMEN	T
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with Rule lies furth for this l	osed location, we c C-3 of the State ner than 660' from ocation is requested across the m	of Utah Oil m the neares sted since th	and (st lea e wel	Sas Conservationse boundary. A I is to be drilled	n Act in topogr l along	a that the well aphic exception existing roadway	y
zone. If proposal is to preventer program, if an 24.	B PROPOSED PROGRAM: If drill or deepen directions y. State office use)				id measure	d and true vertical depth	
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APPROVED BY CONDITIONS OF APPROV	/AL, IF ANY:	TI'	rlb			DATE	·





June 26, 1964

Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Motice of Intention to Drill Well No. ROZEL STATE #1, 1000' FSL & 800' FEL, NW SE SE of Section 8, T. 8 N., R. 7 W., SLEM, Box Elder County, Utah.

Dear Sir:

Insofar as this office is concerned, approval to drill said well is hereby granted. However, this approval is conditional upon a bond being filed with the State Land Board, a surveyor's plat and Designation of Agent being filed with this office on/or before July 3, 1964.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to <u>immediately</u> notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer Office: DA 8-5771 or DA 8-5772

Home: CR 7-2890 - Salt Lake City, Utah

This approval terminates within 90 days if this well has not been spudded within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Please have the enclosed 'Minimum Safety Requirements" notice posted in a conspicuous place on the drilling location.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. VEIGHT EXECUTIVE DIRECTOR

CRF: kgw

cc: Donald G. Prince, State Land Board, Salt Lake City, Utah

H. L. Coonts, Pet. Eng., Oil & G"s Conservation Commission, Mosb, Utah







A

top

July 20, 1964

MEMO FOR FILING:

Re: Charles E. King
Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

On July 17, 1964, I visited the above well site. The operator has completed drilling, but there were no personnel on the location to inquire of the status of the well.

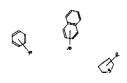
The newly patented "chain-driven scraper" pump unit has been installed. It was reported that the company is waiting for fill-up to test for results.

PAUL W. BURCHELL CHIEF PETROLEUM ENGINKER

PWB:bc

cc: H. L. Coonts, Pet. Eng. Box 266 Moab, Utah



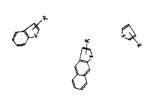


UNION PETROCHEMICALS

Test on Well

R-S-H

R-S-R



Director of Research Research & Development Department

Dear Sir:

Utanol Bases are characterized by their unusual content of non-corrosive sulphur - 12.5 %. The sulphur content by functional group is as follows:

HIGH SULPHUR BASES

FOR:

Acid Proof Enamel Acid Proof Mastic Acid Resisting Coatings Acid Resisting Varnish Anti-Corrosive Paint Asbestos Filler Acoustical Blocks Armature Windings Asphalt-Leather Composition Battery Boxes Built-Up Roofs Caulking Compounds Fungicides Glazing Concrete Horticulture Mulching Paper Insulating Paper Insulating Tape Impregnating Material Lubricants Molding Compositions Paint Pipe Wrappings Pipe Line Coatings Plastics Rubber Shoe Filler Sulphur Blowing-Substitute Tree Surgery Compounds Varnish Waterproofing Wire Rope Lubrication

Mercaptans --- 8 %

Sulfides --- 38 %

Thiophenes --- 54 %

Average specifications of Utanol are:

A.P.I. Gravity

Softening Point R & B --- 73 deg. F.

Resins --- 32.4 %

Asphaltenes --- 51 %

Distillation, atmospheric --- 17.3 % @ 492 deg. F.

--- 37.6 % @ 662 deg. F.

9.4

In requesting material for examination, please specify Rafinate (light portion) or Residue (heavy asphaltic portion) or both.

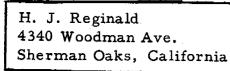
Hoping to be of service to you, we remain,

Sincerely,

Lee Scott Marketing

LS/rr

UNION PETROCHEMICAL COMPANY, INC. Utanol Production. Research and Development, 248 South Lasky Drive, Beverly Hills, California, U. S. A. Long Distance Conference Phone (Station-to-Station) Area Code; 213, 275-9553. Cable Address: UPETROCHEM, Los Angeles, California, U. S. A. All price quotations are subject to market fluctuation, tariff and c.i.f. changes, immediate acceptance, prior sale and our confirmation unless otherwise stipulated.



UNITED STATES PATENT OFFICE

2,404,871

LUBRICATING COMPOSITIONS

Paul R. Van Ess, Berkeley, Forrest J. Watson, Oakland, and Gary M. Whitney, Piedmont, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

> No Drawing. Application July 28, 1943, Serial No. 496,678

> > 12 Claims. (Cl. 196—13)

1

This invention relates to sulfur-containing additives used to produce improved lubricants and stabilized organic compositions, to methods of preparing concentrates of naturally-occurring sulfur-containing additives for lubricating oils 5 and greases, and to improved methods of inhibiting oxidative decomposition and lubricating internal combustion engines, particularly those containing corrosion-sensitive alloy bearings.

It was quite generally believed heretofore that 10 relatively high boiling sulfur compounds naturally occurring in petroleum crudes were good inhibitors for lubricating oils, imparting to them anti-corrosive properties and oxidation stability. As a result, several high sulfur-content lubricat- 15 ing oils have appeared on the market for which certain superiorities are claimed. However, in many cases such claims cannot be verified by laboratory and engine tests. Moreover, it was found that as a rule these high sulfur lubricating 20 oils have a very strong and dangerous tendency to form lacquer, sludge and carbon on pistons and piston rings, particularly in high temperature operation.

among the <u>naturally-occurring</u> sulfur pounds in petroleum oils there are beneficially active as well as inactive and even detrimental varieties and that the beneficially active comthey occur to produce concentrates of relatively high non-corrosive sulfur content, which, when added to well refined lubricating oils, impart to them good oxidation stability and anti-corrosive properties without materially increasing their 35 tendency to form lacquer, sludge and carbon.

It is accordingly an object of this invention to produce from crude petroleum, sulfur concentrates which, when added to refined lubricating oils and the like, act as oxidation and corrosion inhibitors without materially increasing the lacquering and sludge depositing tendency of the base oil. A further purpose is to provide lubricating compositions having decreased tendencies to attack modern alloy bearings. Another object is to obtain superior aviation and Diesel engine, heavy duty lubricating oils. A still further purpose is to produce novel sulfur-containing petroleum fractions which contribute valuable anticorrosive, anti-oxidant, anti-wear, high film strength and/or other advantageous properties to organic compositions in which they are incorporated. Other objects will be apparent from the following description.

It has been determined that the anti-corrosive and anti-oxidant properties of the desirable natural petroleum sulfur compounds are associated with the availability or activity of the sulfur in them. If the compounds or mixtures thereof, such as those obtained from petroleum by the hereinafter described methods have low sulfur availabilities, they are themselves substantially non-corrosive to bearing surfaces but may fail to inhibit other types of corrosion. If, however, their sulfur availability is above a certain minimum, they will inhibit against both bearing corrosion and oxidative decomposition and may also contribute other valuable properties to the lubricating oil to which they are added. Some of these It has now been discovered however that 25 additives may produce a brown or colored film on metal bearing surfaces in engine operation. With others, (notably the hereafter described Utanol raffinates) this discoloration of copper surfaces may be substantially absent, but the anpounds can be extracted from the oils in which 30 ti-corrosive and anti-catalytic properties which the sulfur compounds contribute to the lubricating oil are still prominent. Some of these sulfur compositions (e.g. the Utanol raffinates) also possess material anti-wear properties and/or the ability to enhance or prolong the anti-wear properties of other anti-wear agents.

The reactivity or availability of the sulfur in various compounds is defined as the percent sulfur (calculated on the total sulfur content in the compound or mixture) which will react with metallic copper under certain conditions. It is determined by heating at various temperatures samples of the compositions with an excess (over the amount equivalent to the sulfur content) of finely divided metallic copper for a standard pe-

riod of time, here taken at 16 hours. The copper sulfide formed is then determined quantitatively as by oxidizing the sulfide with bromine and precipitating the resultant sulfate with barium chloride. If the percent of sulfur reacted is plotted against the reaction temperatures for various sulfur compounds or high sulfur content oils, a family of curves is obtained which at relatively low temperatures are quite close together. However, at temperatures of say 300° C. the 10 curves separate widely and the availability of the sulfur as determined at this temperature gives a reasonable correlation for various petroleum derived sulfur compounds with their inhibiting oils. At this particular temperature, compounds having sulfur availabilities below about 15% (for example those in West Texas high-sulfur lubricating oil extracts) are of little if any effect, while certain other natural petroleum sulfur 20 compounds of higher availability, i. e. above about 15% and preferably above about 20% (for example, those in Utanol raffinates) are highly effective.

The availability of these sulfur compounds has 25 been correlated with their anti-corrosiveness in lubricating oils, for example by determining the comparative weight losses of copper-lead bearings subjected to the action of lubricating oils containing standard amounts of these sulfur additives 30 plus a commonly used detergent, which, although contributing other valuable properties, causes or increases corrosiveness of the lubricating oil. Thus various blended oils have been tested and compared by a procedure known as the Thrust 35 Bearing Corrosion test, which was described in the National Petroleum News, September 17, 1941, pp. R 294-296.

Fractions or concentrates of active sulfur compounds may be obtained by various methods from 40 various high sulfur petroleum crudes which contain them. In most crudes, the concentration of these compounds is quite low, and special methods (which are described later) are required in order to recover them in relatively high concentration, 45 so that they may be added to refined lubricating oils in effective amounts without materially changing the desirable properties of the latter. As a rule, it is poor practice to add to a well refined lubricating oil more than about 10% of any addition agent. The effective amounts of sulfur which must be added to various refined lubricating oils in the form of active sulfur compounds usually are on the order of 0.1% to 0.3% by weight of refined oil, although quantities of between 0.02% and 1% may be useful. In a semiplastic composition such as a grease, higher amounts may be employed. Therefore, it is desirable, if not essential, that the sulfur content of a concentrate of active compounds be at least 60 2% and preferably 5% or higher.

As previously indicated, the indiscriminate addition of natural petroleum sulfur compounds tends to cause an increase in lacquering and sludge depositing tendencies of the blended oils. 65 This however can be minimized by properly refining either the oil from which the active high sulfur concentrates are produced or the concentrates themselves before they are added to lubricating oils. Such refinement includes substantial 70 elimination of asphaltic materials and a treatment capable of separating aromatic from nonaromatic hydrocarbons, for example, by precipitation with gas, such as methane under high pressure as described by Pilat in U. S. Patent 75 or their mixtures.

2,315,131, sulfuric acid treatment, solvent extraction, selective hydrogenation, etc., or a combination of such treatments, preferably under conditions not to reduce the suifur content of the concentrate excessively, i. e. so that not more than about 1/3 of the total sulfur content is lost. In other words, our concentrates are "raffinates," 'ramnates" as commonly understood in the petroleum industry being relatively paraffinic petroleum fractions from which naturally associated aromatics have been removed. Whether the sludging tendency is the result of over-activity of certain sulfur compounds (as might well be) or is due to the presence of other associated comefficacy when incorporated in refined lubricating 15 pounds, is not known at this time. However, this is immaterial, as it is sufficient that a treatment adapted to remove aromatics from hydrocarbon mixtures will achieve the desired result.

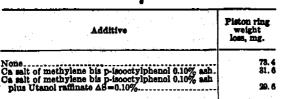
> In general, crudes which contain the active sulfur compounds in concentration sufficient to recover them in relatively concentrated form, are of highly asphaltic nature such as certain California (particularly Mount Poso, Coalinga, Santa Maria) and Venezuelan crudes.

> Outstanding is an oil known to the trade as "Utanol" which is an asphaltic petroleum crude obtained from snallow wells in the Great Salt Lake area and southern Idano. The oily fraction separated from this material is known as "Utah Ou." Utanoi varies in sultur content from about 10% to 15%, has a specific gravity of about 1.0 to 1.1, a saponification number of around 10 to 20, naphtna insciuoles of 10% to 15%, and contains about 40% to 70% asphalt as determined by precipitation with about 6 volumes of n-butane at 60° to 100° C. It has no appreciable content of phe-

Methods for obtaining an oil fraction having the desired concentration of active suifur compounds from crudes having a sulfur content above 5%, such as Utanol, are relatively simple. One such method specifically applied to Utanol is as follows:

The crude is first de-asphalted by any of the standard de-asphalting methods. This may be achieved by asphait precipitation or distillation, or both. The precipitation method is preferred because of the extremely high asphalt content of the Utanol which may interfere with the proper distillation and result in cracking of the asphalt and the inclusion of harmful cracked material in tne distillate.

The precipitation may be carried out by mixing the Utanol with several volumes of a liquid light hydrocarbon oil comprising predominantly or consisting of C₃ to C₆ hydrocarbons, preferably at a temperature within about 75° to 100° C, of the critical temperature of the latter. Thus propane or propylenes at normal room temperature, butanes or butylenes at temperatures of 60° C, or above are well suited. Dissolving in benzene and precipitating with isopentane also proved successful. If desired, the crude may be dissolved in a liquid C4 to C12 hydrocarbon, naphtha, light kerosene, etc., and gaseous methane, ethane, natural gas, propane, fuel gas, water gas, CO, CO2 or other gases may be introduced at high pressures to effect or complete the asphalt precipitation. Moreover, selective so-called "naphthenic" solvents may be present, such as liquid SO2, furfural, nitrobenzene, beta,beta'-dichlor-diethyl ether, phenol, cresylic acids, aniline, methylsulfolane, dimethylsulfolane, or a large number of others



The Utanol raffinates also possess other desirable characteristics when incorporated in a lubricating oil, such as anti-scuffing and anti-scratching properties in Diesel engines. Their beneficial activity may also be enhanced by utilization in the presence of small amounts of synthetic organic sulfur-containing anti-oxidants, e. g. dibenzyl sulfide or disulfide, wax disulfide, diphenyl sulfide, sulfurized sperm oil, sulfurized olefin polymers, sulfurized wax olefins (obtained in the cracking, or by chlorination and dehydrochlori-

relatively high specific dispersion or content of aromatics, the former often being considerably above 160, unless the solvent extraction and additional treatment preparatory to the solvent extraction was very drastic. If the specific dispersion of the sulfur concentrate is above about 145, the concentrate may again be solvent-extracted or sulfuric acid treated, etc., to further reduce its aromaticity and specific dispersion to below about 140 in order to produce an addition agent for lubricating oils which has the least lacquer imparting tendencies.

In the table below, a comparison is made of the effect of the several sulfur concentrates on the oxidation stability (Dornte type oxygen absorption apparatus at 150° C.) in the presence of 1 square centimeter of copper per gram of oil of an S. A. E. 60 lubricating oil when added thereto in amounts to raise the sulfur content by 0.1%:

Source of petroleum material	Method of obtaining sulfur conc.	Spec. dispersion of sulfur concentrate special x104	Time to absorb 1800 ml. of 0s/100 g. oli
	None added Asobalt precipitation acid treating		Hours 9, 2
Mt. Poso lubricating distillate, furfural raffinate, 55 V. I. Mt. Poso lubricating distillate, acid treated furfural raffinate, 60 V. I.	Mercuric scetate in acetic acid SbCli—AlCli	132 126 143	47. 7 82. 0 82. 1
Mt. Poso iubricating distillate, furfural raffinate, 55 V. I. West Texas distillate. Do	Aluminum chloride Acid treat—extraction with HgAcs in HAc Duosol extration followed by acid treat	158 196 200+	21. 3 13 9. 8

nation, of paraffin wax), bis-(methylene aryl or 35 alkaryl sulfides), etc.

As indicated before, when starting with crudes or fractions thereof having sulfur contents materially below about 5%, such as California and Venezuelan oils, different methods for recovering 40 the active sulfur compounds must be employed than that described for Utanol. Since oils having a relatively low sulfur content may display a ratio of aromatics to sulfur that is higher, for example, than with Utanols, it is necessary to 45 first remove from these oils some of the aromatics, as by selective solvent extraction with a "naphthenic" solvent of the type described earlier, and if necessary augment this treatment with others such as sulfuric acid treatment. Likewise, crudes 50 relatively low in asphalt and aromatic content do not show the desired concentration of the sulfur compounds by the removal of their smaller amounts of undesirable constituents. The sulfur components, however, can be concentrated 55 by methods such as the following:

Extraction with acetic acid containing a soluble mercury salt such as mercuric acetate, mercuric chloride, etc. to form a mercury complex extract which is then worked up to recover the extract oil and if necessary further refine the latter.

Extraction with a liquid mixture of SbCls and AlCls to form a complex which may be separated and decomposed to recover the oil.

Extraction with AlCls at temperatures between about 0 to 80° C. as described in U. S. Patent 2,309,337 to form a complex which may be decomposed to recover the oil.

All three of these extraction methods yield relatively dark oils, even though the starting raffinate may have been of light color. Moreover, the SbCl3—AlCl3 extraction, as well as the AlCl3 extraction, tend to cause accumulation in the sulfur concentrate of whatever aromatics have been left over from the preceding solvent extraction, and therefore result in sulfur concentrates of

The method of concentrating sulfur compounds with the aid of mercuric acetate in acetic acid is described below in greater detail:

A sample of 50 V. I. Mt. Poso furfural raffinate was first extracted with glacial acetic acid to remove nitrogen bases. Glacial acetic acid saturated with mercuric acetate was then added to the oil, with stirring, in the amounts shown in the table below. The mixture was allowed to settle and the lower layer drawn off. This extraction may be performed several times on a sample (as shown in the table) and the remaining oil then washed with acetic acid to remove the remaining mercury compounds. It is also advantageous to carry out the extraction in the presence of an inert, oxygen-excluding agent such as nitrogen or natural gas which may be bubbled through the liquid to minimize oxidation. The extracts and acetic acid end-wash are then combined. The acetic acid may be distilled off and the mercury then released from the oil, for example, by heating say to 100° C. with dilute acid (e. g. 2 vols. of 15% HCl) or by saturating with H2S, the oil then being diluted with isopentane or other suitable solvent, water-washed, dried and clay-treated before removal of solvent.

The variables for several such runs are shown in the following table:

		Run number					
65		I	п	ш			
	Weight of oil used, gms No. of dumps of reagents	620	901	738			
	Volume of acetic acid, mls	19Ŏ	21.6	150			
70	mls.	485	860	540			
	Temperature of treatment, * C	80	18	540 50			
	Total treating time, minutes	90	185	. 168			
	оЦ)	4.8	4.8	5.4			
	Per cent sulfur remaining in cil Per cent sulfur in extract cil (aver-	0.15	0.14 (7)	5. 4 0. 16 (4)			
75	260)	8.60	3.86	2. 81			





If the crude oil contains relatively low boiling components, as gasoline, kerosene, etc., they may be flashed from the crude prior to the precipitation or else may be separated later by fractional distillation of the deasphalted raffinate oil.

The supernatant liquid layer, i. e. the raffinate phase resulting from asphalt precipitation and containing the desired oil, is now separated from the precipitated asphalt. This oil must be further refined to reduce its lacquer-imparting tenden- 10 cies.

Depending on the conditions of the precipitation, the nature of the solvents employed and the nature of the crude itself, one of several ways may be followed. Obviously the more drastic the precipitation conditions are, the less drastic need be the second treating step which involves (as previously indicated) a treatment adapted to remove aromatic hydrocarbons. Solvent extraction may be employed with any one of the well known selective "naphthenic" solvents previously mentioned. Treatment with strong, i. e. 93 to 100% sulfuric acid is usually desirable and effective. Amounts of sulfuric acid ranging anywhere from 5 to 100 pounds per barrel of the raffinate oil may 23 be employed.

Several treatments may be combined and the second refining treatment may be carried out in the presence or absence of the light hydrocarbon liquid employed in the precipitation; generally 30 its presence may be helpful in the second step. The undesirable components, if any (which may be in the form of sludge, extract, etc.), produced in the second refining treatment, are now separated. Solvent, if present, is removed in the usual manner as by distillation or washing with water or wash solvent, and the recovered high sulfur oil may be given a finishing treatment with clay (such as fuller's earth, acid activated clay, etc.), bauxite, zeolite, silica gel or other adsorbents.

The specific dispersion of the treated high sulfur raffinate oil is often a fair indication of its lacquer imparting tendencies. It is desirable that the specific dispersion be below about 160, more preferably below about 140 or 145. Also, the color may be an indication if taken together with the specific dispersion. Preferably, the color should be better than 6 (A. S. T. M. or National Petroleum Association Scale).

Samples of treated Utanol raffinate oils from

Ability of Utanol raffinates to decrease wear was determined on a Multiple Four Ball machine similar in principle to the Boerlage apparatus described in the magazine Engineering, volume 136, July 14, 1933. This apparatus comprises four steel balls arranged in pyramid formation. The top ball is rotated by a spindle against the three bottom balls which are clamped in a stationary ball holder. All balls are immersed in the oil to be tested. The tests are run for two hours at 700 R. P. M. under a 7 kg. load and at a controlled temperature of 130° C. Diameters of the wear scars worn on the three balls forming the base of the pyramid are then measured, and the average taken as the true indication of wear. Results were as follows:

		Lubricant	Scar diameter in millimeters
)	1	Refined aviation lubricating oil, API gravity	
	•	about 26, SU at 210° F. about 115-125.	0.7
	2	Oil #1 containing clay treated Utanol Pilat	
		raffinate, ΔS=0.10%	0. 47
	3	Oil #1 containing clay treated Utanol Pilat	0.86

Oxidation tests were made with the same oil to determine the time required for the absorption of 1800 cc. of oxygen by 100 g. of oil in the presence of 1 cm.² of copper surface/gram of oil at 150° C. The following data are typical:

Hours

Oil No. 1 (as above) ______ 9.3 Oil No. 2 (as above) 48

This Utanol raffinate was also tested in the Thrust Bearing Corrosion test, referred to earlier, employing a compounded heavy duty truck and bus or Diesel lubricating oil. It contained in each case 1% of the magnesium salt of lauryl salicylate which has been a widely used lubricating oil detergent, but which, although otherwise beneficial, imparts corrosive properties to the lubricant. In 20 hour tests at 125 lbs. thrust and 2400 R. P. M. with this oil, the copper-lead bearings showed a weight loss at 130° C. of 15 mg./cm.². When tested with this same oil, to which had been added a clay treated Utanol Pilat raffinate, ΔS=0.10%, the bearings showed no weight loss at 160° C.

Chevrolet engine tests using procedure L-4-243 of the Cooperative Lubricants Test Program were also made using a corrosive S, A. E. reference oil. Results were as follows:

	Varnish rating		Bearing	Used oil properties		
		Sludge rating	wt. loss, mg./em. ³	Sap. No. mg. KOH/g.	Neut. No. mg, KOH/g.	
Base oil Base oil + Utanol raffinate ΔS = 0.10% Base oil + Utanol raffinate ΔS = 0.10% Base oil + Utanol raffinate ΔS = 0.30%	105 106. 5 109. 5 104. 5	73 70, 5 72 73	84. 0 83. 4 21. 7 8. 2	22. 2 25. 1 26. 8 9. 98	3. 6 4. 6 4. 2 2. 8	

different batches had the following properties:

different parenes mad me to	HOWITTE DI	alact area.	
	General range	One acid treated Pilat raffinate	6
Gravity, M. Viscosity at 100° F	0. 98-1. 0 950-1400 34-39 40-55 130-145 4-7. 6 0-8	0. 9880 1, 018 34. 7 53 132 4 4 4	
Ultimate analysis: Carbonper cent weight Hydrogendo Sulfurdo Nitrogendo	A clay treated Pilat raffinate 76, 27 10, 90 12, 7 0, 14	11. 9 9. 06	7

The action of a Utanol raffinate in increasing the efficiency of an anti-wear agent, the calcium salt of methylene bis p-isooctylphenol, may be seen from the following data of piston ring weight loss in a CFR-Diesel engine. Test conditions: 1400 R. P. M.; load, 68 lbs./in.² brake mean effective pressure; jacket temp. 100° C.; oil temperature 70° C.; compression ratio 16:1; 47 cetane number commercial Diesel fuel; base oil, commercial Diesel lubricating oil S. A. E. 30; test length, 4 runs of 13 hours, results reported for overall period.

raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting mercury salt-sulfur compound complex to regenerate and recover the extracted sulfur compounds.

2. A process for obtaining a sulfur-containing fraction possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under conditions of atmosphere and temperature to substantially avoid any oxidation and to produce a mercury salt-sulfur compound complex, and breaking the resulting complex to regenerate and recover the extracted compounds.

3. A process for obtaining a sulfur-containing fraction possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt at a temperature below about 20° C. and breaking the resulting sulfur complex to recover the extracted sulfur compounds.

4. A process for obtaining a sulfur-containing fraction possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with glacial acetic acid saturated with mercuric acetate and breaking the resulting sulfur complex to recover the extracted sulfur compounds.

5. A process for obtaining a sulfur-containing fraction possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt at a temperature not above about 50° C., thereby producing a mercury salt-sulfur compound complex, and breaking the resulting complex to regenerate and recover the extracted compounds.

6. A process for obtaining a composition possessing antioxidant and other valuable properties, which process comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt at a temperature not above about 50° C., thereby producing a mercury salt addition compound, and breaking the resulting addition compound to regenerate and recover the extracted compounds.

7. A process for obtaining a composition possessing antioxidant and other valuable properties, which process comprises treating a substantially paraffinic jubricating oil raffinate with glacial acetic acid saturated with mercuric acetate, thereby producing a mercuric acetate addition compound, and breaking the resulting addition compound to regenerate and recover the extracted compounds.

8. An organic composition comprising a predominant amount of an organic substance which is unstable against oxidative deterioration and which is responsive to sulfur-containing antioxidants, and an added beneficiating amount of natural-occurring sulfur-containing compounds from petroleum oil possessing antioxidant and other valuable properties prepared by the process which comprises extracting a substantially

paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting mercury salt-sulfur compound complex to regenerate and recover therefrom the extracted compounds.

9. An organic composition comprising a predominant amount of a mixture of hydrocarbons, which mixture is unstable against oxidative deterioration and which is responsive to sulfur-containing antioxidants, and an added antioxidant amount of a concentrate of natural-occurring sulfur containing compounds from petroleum oil possessing antioxidant and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

10. An oleaginous composition comprising a predominant amount of an oleaginous material which is unstable against oxidative deterioration and which is responsive to sulfur-containing antioxidants, and an added antioxidant amount of a concentrate of natural-occurring sulfur-containing compounds from petroleum oil possessing antioxidant and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

11. A lubricant comprising a predominant amount of a refined mineral oil, a small added amount of a normally corrosive detergent, and an added small amount sufficient to render the resultant mixture substantially non-corrosive of a concentrate of natural-occurring sulfur-containing compounds from petroleum oil possessing antioxidant and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating oil raffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

12. A lubricant comprising a predominant amount of a refined mineral oil and characterized by a normal tendency to corrode metal bearing surfaces, and an added corrosion-inhibiting amount of a concentrate of natural-occurring sulfur-containing compounds from petroleum oil possessing anticorrosive and other valuable properties prepared by the process which comprises extracting a substantially paraffinic lubricating ciraffinate with a mercury salt under temperature conditions to produce a mercury salt-sulfur compound complex and breaking the resulting complex to regenerate and recover the extracted compound.

PAUL R. VAN ESS. FORREST J. WATSON. GARY M. WHITNEY.

Extract from Run No. II was incorporated in white oil to the extent of 3%. This increased the time required for 100 g. to absorb 1800 ml. of oxygen from less than 2 to 236 hours. Corresponding extracts obtained at higher (e. g. reflux) temperatures were considerably less effective.

It has been found that when this mercuric acetate extraction of the oil is carried out at room temperature or lower (i. e. below about 20° C. and preferably near the melting point of 10 quaternary amines. acetic acid) the content of desirable sulfur constituents in the extract is greater than if the oil is refluxed or maintained at a higher temperature while treating with the mercury salt. In general, any mercury salt, particularly the mer- 15 curic salts soluble in acetic acid such as the oxalate, carbonate, chloride, sulfate, etc. or their mixtures, may be employed in like manner as the mercuric acetate, since these salts will give mercuric acetate in the acetic acid solution. The 20 solubility of the acetate is considerably greater than for the other salts, hence it is generally more advantageous to start with the mercuric acetate. As compared with salts of other metals, purpose as shown by the foregoing data.

The herein described compositions possessing the required amount of available or reactive sulfur may also be incorporated advantageously in extreme pressure lubricants, cutting oils, roll oils, 30 wire drawing lubricants, greases, hypoid gear lubricants, etc. They may also be used to impart anti-wear and/or anti-oxidant properties to lubricants not necessarily subject to high prescants for bearings, in particular, modern alloy bearings comprising cadmium-silver, cadmium-nickel, copper-lead, "high lead" alloys, as well as Babbit metal, and the like. The lubricating media also need not be derived in whole or in part from mineral oil but may consist in whole or part of vegetable or animal lubricants such as palm oil. cottonseed oil, fish oil, animal wax, phosphatides, etc., as well as the so-called synthetic lubricants (e. g. polymers of olefins derived from cracked 45 wax). In addition, by reason of their antioxidant properties, such additives may be incorporated advantageously in organic substances not intended for use as lubricants at all, such as gasoline, kerosene, spray oil, medicinal oil, trans- 50 former or electrical insulating oil, cleaning fluid, synthetic or natural rubber, Diesel fuel, photographic developers, etc.

Particular reference may be made to the inclusion of the herein described anti-oxidants as 55 etc. additives for coating materials such as asphalt, resins, oils, waxes, varnish, insulating or moisture-protective substances such as oiled or "waxed" paper, etc. Such plastic or semi-plastic vehicles may also contain, for example, antirusting agents and be applied to metal surfaces to provide a corrosion-resistant coating. Also such oxidation inhibited adhesive coatings may be applied to wood, paper, cardboard, felt, stone, laminated glass, fabric, concrete, plastic composi- 65 tions, Transite board, etc., by such methods as roller coating, dipping, brushing, spraying and the like.

When the sulfur compounds of this invention are intended for addition to lubricating oils, they 70 about 2% to 15%. or the concentrates which contain them should have boiling temperatures above gas oil range and preferably within or above lubricating oil range.

used in connection with other additives in lubricating media, for example, detergents formed from the oil-soluble salts of various bases with detergent forming acids. Such bases include metallic as well as organic bases. Metallic bases include those of the alkali metals, as well as Cu. Mg, Ca, Sr, Ba, Zn, Cd, Al, Sn, Pb, Cr, Mn, Fe, Ni, Co, etc. Organic bases include various nitrogen bases as primary, secondary, tertiary and

Examples of detergent forming acids are the various fatty acids of, say, 10 to 30 carbon atoms, wool fat acids, paraffin wax acids (produced by oxidation of paramn wax), chlorinated fatty acids, aromatic carboxylic acids including aryl fatty acids, aryl hydroxy fatty acids, paraffin wax benzoic acids, various alkyl salicyclic acids, phthalic acid mono esters, aromatic keto acids, aromatic ether acids; diphenols as di-(alkyl phenol) sulfides and disulfides, methylene bis alkylphenols; sulfonic acids such as may be produced by treatment of alkyl aromatic hydrocarbons or high boiling petroleum oils with sulfuric acid; sulfuric acid mono esters; phosphoric the mercury salts are definitely superior for this 25 acid mono and di-esters, including the corresponding thiophosphoric acids; phosphonic and arsonic acids, etc.

Non-metallic detergents include compounds such as the phosphatides (e. g. lecithin), certain fatty oils as rapeseed oils, voltolized fatty or mineral oils.

Other detergents are the alkali earth phosphate di-esters, including the thiophosphate di-esters; the alkali earth diphenolates, specifically the calsure, such as turbine oil, refrigerator oil, lubri- 35 cium and barium salts of diphenol mono and poly sulfides; etc.

> Our sulfur additives may also be used in association with other anti-oxidants, for example alkyl phenols such as 2.4.6 - trimethylphenol, pentamethylphenol, 2.4 - dimethyl - 6 - tertiarybutylphenol, 2.4-dimethyl-6-octylphenol, 2.6-ditertiary-butyl-4-methylphenol, 24,6-tri-tertiarybutylphenol, etc.; amino phenols as benzyl amino phenols; amines such as dibutylphenylenediamine, diphenylamine, phenyl-alpha-naphthylamine, phenyl-beta-naphthylamine, dinaphthyl amines; etc.

> Other corrosion inhibitors may also be present such as dicarboxylic acids of 16 and more carbon atoms, alkali metal and alkali earth salts of sulfonic acids and fatty acids, etc.

Likewise, other additives may be present in a lubricating oil or grease such as blooming agents, anti-foaming agents, viscosity index improvers,

Instead of first producing the herein described additive and then adding it to a lubricating oil, a high sulfur asphaltic crude such as raw Utanol may be added to a crude petroleum, for example a topped crude suitable for the manufacture of lubricants, and the mixture then subjected to one or several treatments adapted to remove substantially all asphaltenes and at least a portion of aromatic hydrocarbons such as previously described. Amounts of this high sulfur oil which may be added to the crude lubricating stock vary with the amount and availability of the sulfur content of the former, as explained before, and may range preferably from

We claim as our invention:

1. A process for obtaining a sulfur-containing fraction possessing anti-oxidant and other valuable properties, which process comprises ex-These compounds may also be advantageously 75 tracting a substantially paraffinic lubricating oil

MP

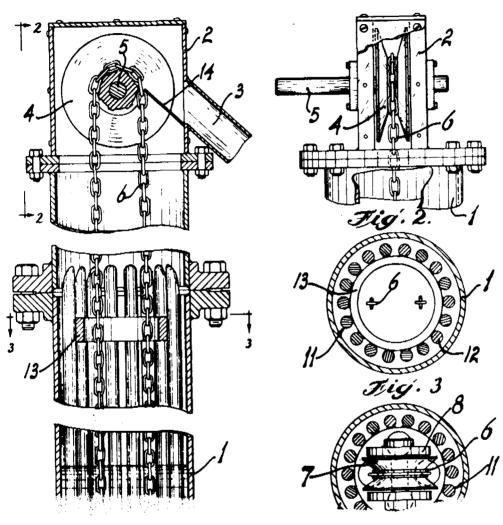
March 29, 1955

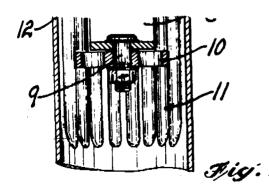
G. L GUSTAFSON

2,704,981

APPARATUS FOR LIFTING HEAVY OIL

Filed Nov. 30, 1953





GOTTFRID L.GUSTAFSON
BY

N.A. Duckman.

ATTORNEY

Form OGCC 4

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

	address 315 E	Frede	South	. Prin Street	ce, Jr	Signed	H	Ma	98 E. King Allo Africa tor
			74 Fede						Fee & Pat.
Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	Date & Conten	REMARKS ling, Depth; if shut down, Cause; Results of Water Shut-Off Test; ts of Gas; and Gas-Oil Ratio Test)
			120345	SI SI SI SI	0 0 0 0			No. of Days Produced O O O O	The #1 well has been shut in while the #'s 2,3,4,5 were beindrilled. These last wells are now being opleted. We have been delayed because of a wait on electric motors of the proper speed. Actual production should standout the first of August.
ŀ									

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift SI-Shut In D-Dead

GI-Gas Injection TA-Temp. Aban.

WI-Water Injection

#1 STATE ROZEL SE SE 8-8N-7W Boxelder County, Utah

Sample Description

122-124 basalt w/fair amt jade grn soft mineral (probably chlorite), moderate amt asphalt 1262 basalt w/minor amt grn mineral, minor amt asphalt 128 basalt w/less grn mineral, tr asphalt 131 same w/minor amt ls, dense wh to lt gr sl silc 1s, dense wh to lt gr, ptly oolc, tr mineraliza-133 tion such as chalcopyrite, sl silc, occ basalt fragment in 1s; 40% basalt ls, dense wh to gr, ptly oolc, sl silc, abund 135 grains and pebbles of basalt, orange silc calc pebbles and other detritus, almost a conglomerate, abund asphalt 1362 cgl, gr of basalt, orange silc calc and silc ls pebbles w/calc cement, moderate amt asphalt ls, dense gr silc w/incls os silc ls pebbles and 139 basalt, fairly abund asphalt same, also basalt 141 ls. It gr; basalt 40%; v abund asphalt 143 145 same same w/ls, crm to lt gr 147 ls, dense crm silc; basalt 40%; fair amt asphalt 149 151% basalt, minor amt asphalt basalt, occ calcite vein, fair amt asphalt 153 157 same w/minor amt asphalt 159 basalt same 161 1623 same 164 v abund asphalt on basalt and wood fibers (evidently lost circ material) v abund asphalt on wood fibers 167 169 same 173 1772 basalt w/tr olivene and chlorite, minor amt asphalt

#1 State Rozel continued

Generalized Interpretive Sample Description

- 122-130 basalt with soft green mineral, probably chlorite, common at top and decreasing toward the base
- 130-149 conglomerate or conglomeratic limestone, lightcolored siliceous limestone with pebbles of basalt, siliceous limestone and other material embedded

149-1772 basalt

Discussion

From bottom up the sequence of events was apparently a lava flow followed by shallow water limestone deposition with a considerable amount of basalt and other pebbles deposited along with the limestone. This was followed by another lava flow that may have somewhat mineralized the conglomeratic limestone.

The asphalt must occur at least partly in fractures in the basalt, since asphalt was found before the conglomeratic limestone was drilled. It may also occur in fractures or voids in the conglomeratic limestone. It is also possible that the lower basalt has fractures with asphalt in them. From samples there was no indication of any regular porosity in any of the rock, but voids larger than the samples could still be present.

It is difficult to say whether or not the bottom of the hole was still in asphalt bearing rock. Once the asphalt started coming in the hole it would tend to contaminate any deeper samples.

> Warren B. Scobey Consulting geologist 14182 West 22nd Avenue Golden, Colorado 80401 August 3, 1964

DRILLING AND COMPLETION REPORT

No. 1 STATE ROZEL
SE SE Section 8, T. 8 N., R. 7 W.
Box Elder County, Utah

June 30, 1964:

Attempted to move in drilling rig. Rig was stuck in mud flats off end of ramp.

July 1, 1964:

Rig jacked up and placed on timbers. Constructed timber roadway to wellsite.

July 2, 1964:

Rigged up drilling rig. Dug mud pits and spudded well at 3:15 P.M.. Sample of water seeping into mud pits tested 285,000 PPM NaCl. Drilled 7-7/8" hole to 96', pulled bit and shut down. Samples from surface to 96' were soft grey to black muds with occasional white streaks.

July 3, 1964:

Drilled soft mud as before to 122' where drilling slowed to 3 to 5 minutes per foot. Shut down and mixed mud at 126'. Pulled bit at 131' and ran hardrock bit, resuming drilling at 12:20 P.M.. Increased viscosity of mud to 45 seconds. Drilling became exceedingly rough at 149' (top of main Basalt). Had shows of asphalt at 124.5', 133'-135', and at 150'. Drilled to 157' and pulled bit and shut down. Circulated samples from 149' to 157' were black to dark green with an abundance of asphalt shows.

July 4, 1964:

Increased viscosity of mud to 60 seconds. Ran 17-1/8" hole opener with 7-7/8" pilot bit and opened 7-7/8" hole to 17-1/8" from surface to 124'. Drilling got very rough and twisted three joints of drill pipe trying to drill ahead. Pulled out of the hole at 2:30 P.M. and shut down.

July 5, 1964:

Operations suspended while waiting for contractor to have additional drill collars sent to location from Salt Lake city yard.

July 6, 1964:

Ran in hole picking up additional drill collars and opened 7-7/8" to 17-1/8" hole from 124' to 153'. Pulled out and shut down.

July 7, 1964:

Rigged up and ran 5 joints of 13-3/8", 48#/foot, ST&C casing. Cemented casing at 153' with 100 sacks salt saturated 50-50 pozmix with 2% gel. Circulated approximately 25 sacks to the surface. Used top and bottom wooden plugs. Placed Howco centralizers at 151', 120' and 87'.

13-3/8" Casing Detail:

Bottom 1.50' Howco 13-3/8" guide shoe

Next 158.40' 5 joints 13-3/8", J-55, 48#/ft. ST&C casing

Total 159.90'

6.90' Cut off of landing joint

153.00' Casing landing depth

July 8-9, 1964:

Shut in waiting on cement to set.

July 10, 1964:

Ran in hole with 7-7/8" bit, drilled wooden cementing plugs and drilled new hole to 161'. Drilling very rough. Pulled bit and shut down. Samples from 157' to 161' were black to dark green with an abundance of asphalt shows.

July 11, 1964:

Ran in hole with 12" bit, mixed additional mud and drilled 12" hole from 157' to 172'. Drilling very rough, drilling rate 15 to 20 minutes per foot. Samples were same as previous day.

July 12, 1964:

Finished drilling 12" hole to 177.5'. Circulated hole clean and blew drilling mud out of hole to 80'. Bailed hole dry. Samples were same as previous day. Rigged up and started running bottom hole pump assembly.

July 13, 1964:

Finished running bottom hole pump assembly. Tested same and shut down operations at Noon. Contractor prepared to move off drilling rig.

DAVID H. JAMES

Consulting Petroleum Engineer

DAVID H. JAMES CONSULTING PETROLEUM ENGINEER 2119 FIRST NATIONAL BANK BUILDING DENVER 2. COLORADO

DRILLING AND COMPLETION REPORT

NO. 1 STATE ROZEL

SE/4 SE/4 SECTION 8

TOWNSHIP 8 NORTH, RANGE 7 WEST

BOX ELDER COUNTY

UTAH

Prepared for

MR. CHARLES E. KING

AUGUST 4, 1964

August 28, 1964

Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

Dear Mr. King:

Our records indicate that you have not filed a Monthly Report of Operations for the month of July, 1964, for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCE-1b, (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

CIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER RECORDS CLERK

KGW:bc

Enclosure - Forms

2

September 23, 1964

Charles E. King P. O. Box 535 Wichita Falls, Texas

> Re: Well No. Rosel State #1 Sec. 8, T. 8 N., R. 7 W., Box Elder County, Utah

Dear Mr. King:

Our records indicate that you have not filed a Monthly Report of Operations for the months of July, and August, 1964, for the subject well. Rule C-22 (1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission require that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b, (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER RECORDS CLERK

KGW:ns

Enclosure - Forms

J.

October 28, 1964

Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Well No. Rozel State #1
Sec. 8, T. 8 S., R. 7 W.,
Box Elder County, Utah

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months of July, August and September, 1964, for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Forms OGCC-1b, (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER RECORDS CLERK

kgw

Enclosure - Forms







Japa,

STATE OF UTAH

SUBMIT IN DUPLICATE*

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*(See Instructions and Spaces for Additional Data on Reverse Side)

The May and the second of the

CHARLES E. KING

P. O. BOX 535

WICHITA FALLS, TEXAS

November 2, 1964

Utah Oil & Gas Conservation Commission 348 South Temple, Suite 301 Salt Lake City, Utah

Re: Well No. Rozel State #1 Sec. 8, T. 8 S., R. 7 W., Box Elder County, Utah

Dear Sir:

I feel ashamed to write this letter, but after looking through my file on the well, I found the original well completion report which I had failed to send in. I have received all the information from my geologist in Denver and for some reason it was misplaced and not sent in.

Enclosed are two copies of the completion report and another report from Mr. Dave James which will give you any other needed information.

As for the monthly report, the well has been shutin since completion and due to certain production problems, we have not been able to make any test as yet. We are hoping to do so within the next three weeks and the report will be sent to you of the results.

Singerely yours,

Charles E. Kind

CEK/dlc

Encs. 3

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David H. James Consulting Petroleum Engineer 2119 First National Bank Building Denver 2, Colorado

Re: Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

Gentlemen:

We are in receipt of your well log for the above mentioned well. However, upon checking this information, we notice that you did not report the water sands encountered while drilling.

Please complete the enclosed Forms OGCC-8-X, and return to this office as soon as possible.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK RECORDS CLERK

cnp

Enclosure

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CMB3

CHARLES E. KING

P. O. Box 535 WICHITA FALLS, TEXAS

March 24, 1965

Mr. Paul W. Burchell Chief Petroleum Engineer Oil & Gas Conservation Commission 310 Newhouse Building 10 Exchange Place Salt Lake City, Utah 84111

Dear Mr. Burchell:

After talking with you yesterday, I contacted a friend of mine in Salt Lake who put me in touch with the firm of Mulliner, Prince and Mangum to represent us in making the application that you advised.

I talked to Mr. Seaton Prince this morning and any help or advice you could give in making this application will certainly be appreciated. I appreciate also, your kind considerations in this and other matters.

You also advised that I should notify you in regard to the work done on the Rozel State #1. Our plan at the present time is to take a small heater on the location which will supply sufficient hot water under pressure to give us bottom hole heat that will be sufficient to raise the temperature of the oil to a point that will be fluid enough to be handled by a regular oil field insert pump. Our plan then is to recomplete the well with regular 2" tubing on which we are putting a sleeved heat exchanger at the bottom, then circulate the hot water through this unit.

We feel we will be successful in being able to produce with this method. As you can see, with this method, we will be able to drill a small hole and complete with normal oil field procedures.



Paul W. Burchell -2- March 24, 1965

Please advise if this is all the notice necessary and if any additional information or special forms are to be submitted, please advise.

Sincerely yours,

Charles E. King C

CEK/dlc

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April 1, 1965

Mr. Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

Dear Mr. King:

Thank you for your letter of March 24, 1965.

Consider this letter as formal approval to perform the work as described in your correspondence, on the above mentioned well. Enclosed please find Form OGCC-lb, "Sundry Notices and Reports on Wells," which is to be filed, in duplicate, as soon as the operations are completed.

Thank you for your assistance in this request.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

PAUL W. BURCHELL CHIEF PETROLEUM ENGINEER

PWB: kgw

Enclosed - Forms

14

April 27, 1965

Mr. Charles E. King P. O. Box 535 Wichita Falls, Texas

Re: Well No. Rozel State #1
Sec. 8, T. 8 N., R. 7 W.,
Box Elder County, Utah

Dear Mr. King:

Reference is made to our letter dated June 26, 1964, in which we granted approval to drill the above mentioned well. However, this approval was conditional upon a surveyor's plat and a Designation of Agent being filed with this office. As of this date we still have not received said information.

We also note that you have not filed a bond covering this well with the State Land Board. Failure to furnish a surveyor's plat, Designation of Agent and a bond could result in your lesse being terminated. I would suggest that you take immediate action to rectify the situation.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT EXECUTIVE DIRECTOR

CBF:kgw

cc: Donald G. Prince State Land Board Salt Lake City, Utah April 28, 1965

Mr. J. F. Brennan Field Supt., Drilling Division Boyles Brothers Drilling Company P. J. Box 58 Salt Lake City 10. Utah

Dear Mr. Brennan:

It seems that the Oil & Gas Conservation Commission never received a surveyor's plat on the well we drilled last July at Point Rozel. I would certainly appreciate your sending a certified copy, such as the one you gave me when I was in Salt Lake, to Mr. Cleon B. Feight, Executive Director, Oil & Gas Conservation Commission, 348 East South Temple, Suite 301, Salt Lake City, Utah.

I had to make a hurried trip to New York, leaving only one day after returning from Salt Lake and I just returned today.

We will have everything ready to go and will be in touch with you the first of next week in regard to starting the four well drilling program.

Again, let me thank you for your many courtesies extended to me when I was in Salt Lake and also for the lunch.

Sincerely yours,

Charles E. King

CEK/dlc

cc: Cleon B. Feight

CHARLES E. KING

P. O. Box 535 WICHITA FALLS, TEXAS

April 28, 1965

Mr. Cleon B. Feight
Executive Director
Oil & Gas Conservation Commission
348 East South Temple Suite 301
Salt Lake City, Utah 84111

Dear Mr. Feight:

In regard to your letter of April 27, it seems that there has certainly been some missent information as all of the things you stated were certainly filed with your office. However, it is my understanding that the surveyor's plat was sent by the surveyor for Boyles Brothers Drilling Company. 482-2595

I know when I was in Salt Lake on the 15th of April, I picked up a certified copy of the survey from Mr. Brennan. I will write him now and request that he send another copy to you.

Also, we did get a bond and to my knowledge, it was filed with the proper office. When I was in Salt Lake on the 15th, I gave this bond to Mr. Fredrick S. Prince, Jr., Attorney for 328-4949 him to check on it and what would be needed to drill the other wells that we are going to file for. Please contact him and he will be able to verify this.

As for the Designation of Agent, Mr. Prince can serve in this capacity.

I am sorry for this mixup and certainly hope this will take care of the situation.

Sincerety yours,

Charles E. King

CEK/dlc

cc: Donald G. Prince

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May 11, 1965

Re: Oil and Gas drilling bond Oil and Gas Lease No. ML22574

Mr. Charles E. King Box 535 Wichita Falls, Texas

Dear Mr. King:

Enclosed please find the drilling bond which you submitted to this office on May 8, 1965. This is being returned to you since it cannot be accepted as a bond covering operations under a State of Utah oil and gas lease. This bond form is one used by the Oil and Gas Conservation Commission for drilling on private lands.

I am enclosing a supply of bond forms acceptable to this office and I have filled one form out in the manner in which it should be filed. I have also included a copy of our rules and regulations for your use. Tule 14 outlines the bond requirements of this office.

You should also note that since you are not the lessee under the lesse on which you will be operating it will be necessary for both you and Mr. Reginald to appear as principals on this bond.

Please submit this bond prior to the commencement of operations upon the leased lands.

Very tru y yours,

DONALD G. PRINCE ECONOMIC GEOGRAPHER

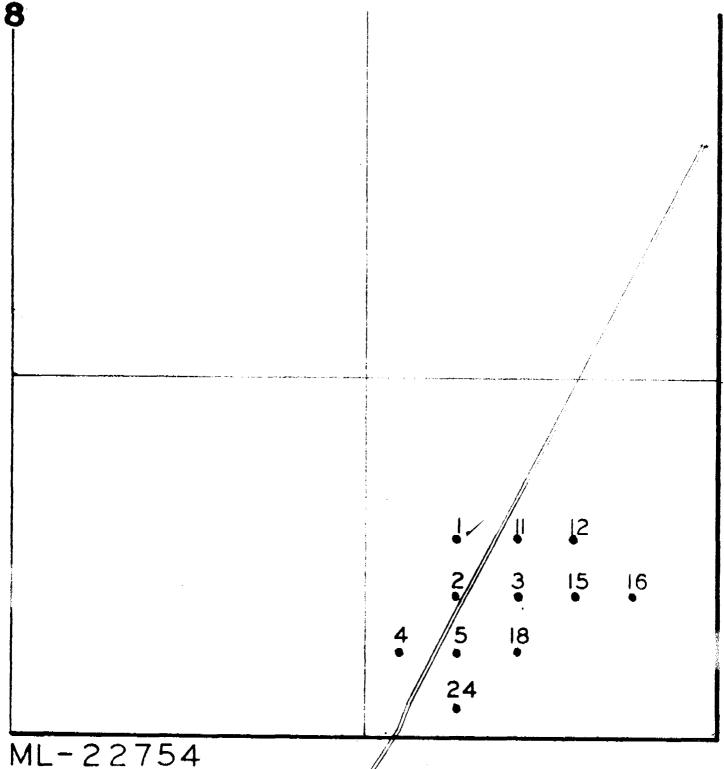
DGP:lr Encl.

CC: Utah Oil and Gas Conservation Commission 348 E South Temple Salt Lake City, Utah

Mr. Harry Reginald 4340 Woodman Ave. Sherman Oaks, California

X

CHARLES E GIG ROZEL FIELD BOX ELDER COUNTY, UTAH



1c gros

LEONIOCA BUI

NE COR. OF THE SEY, SEC B, TBN, 7 R7W, S.L. M.

8 9

/EST 983'

OSGULF OIL STATE ROBELL NOI.

SURVEYOR'S CERTIFICATE

I, Robert G. Pinkerton, hereby certify that I am a Registered Professional Engineer, and that I hold License No. 2519 as prescribed by the laws of the State of Utah, and I have made a survey to the following point:

Being located South 1914 feet and West 983 feet from the N.E. corner of the S.E. 1/4 of Section 8, T8N, R7W, S.L.B.& M.

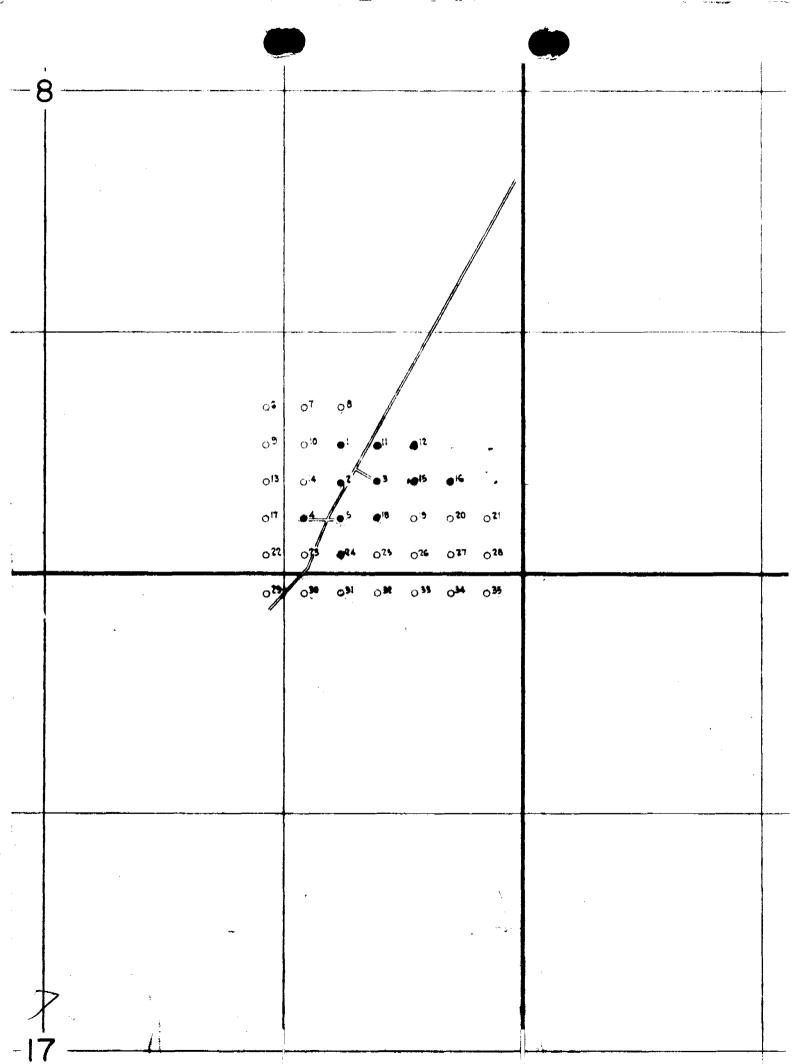
I further certify that the above plat correctly shows the dimensions of the point located.

Registered Professional Engineer License No. 2519

<u>July 16, 1964</u>

Date

54

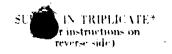


DEPARTMENT OF NATURAL RESOURCES

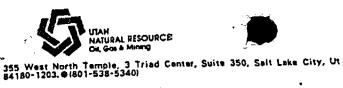


	DIVISION OF	OIL, GAS, AND MI	VING	5. LEASE DESIGNATION AND SERIAL NO.
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OIL GAS WELL	OTHER			7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR KENNETH	Pixley			8. PARM OR LIRAGE HAME ROZEL State
3. ADDRESS OF OPERATOR				9. WBLL NO.
4. LOCATION OF WELL (Repor See also space 17 below.) At surface	t location clearly and	in accordance with any	State requirements.	10. FIELD AND POOL, OR WILDCAT
				11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
14. PERMIT NO.	15. Star	YATIONS (Show whether DF,	RT. GR. eta.)	SOC . 8 TEN RTW 12. COUNTY OR PARISH 18. STATE
		4203		Box EHER Utah
16.	Check Appropriate	e Box To Indicate N	ature of Notice, Report, o	or Other Data
хотго	S OF INTENTION TO:	!	SUE	SEQUENT REPORT OF:
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	MULTIPLE ABANDON® CHANGE PL	ANS X	WATER SHUT-OFF FRACTURE TREATMENT SHOUTING OR ACIDIZING (Other) Angle (Note: Report res Completion or Rec	REFAIRING WELL ALTERING CASING ABANDONMENT* Including completion on Well completion Report and Log form.) ates, including estimated date of starting an
Changed	head &	Re worke		Sell VIIII
		•	DIV	ISION OF S & MINING
18. I hereby certify that the	oregoing is true and	correct		
SIGNED BOLEM L		1	indany	DATE 12-9-81
(This space for Federal o	State office use)	TITLE		
COMPANIA IS OF APPRO	VAL IF ANY:			DATE

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING



	DI	VISION OF OIL, GA	AS, AND MIN	IING	SL 22574-A
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i.					7. UNIT AGREEMENT NAME
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					8. FARM OR LEAGE NAME
	OF OPSEATOR				Rozel Point 9. WBLL NO.
DRAWE	ER ''O'' ALT		521		1
4. LOCATION See also At surfa	space 17 below.)	tion clearly and in accord	ance with any S	itate requirements."	10. FIELD AND POOL, OR WILDCAT
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42					8N 7W SEC 8
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(Other)		COAPUL FLANS		(Norz: Report results	of multiple completion on Well letion Report and Log form.)
nent u	o this work.) *	internatinal diment Sine i	distantant locatio	ons and measured and true vertica	including estimated date of starting any aidepths for all markers and zones perti-
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	PI # 43-003-155		_	#2	
Al	PI # 43-003-1 55	85	4	#3	
	PI # 43-003-155			#5	
	PI # 43-003-200			#11	
	PI # 43-003-200			#12 #15	
	PI # 43-003 200 PI # 43 - 003-200			#15 #16	
	PI # 43-003-200 PI # 43-003-200			#18	
			APR -	5 1994 AS & MINING	
18. I hereby	certify that the forego	ing is true and correct			
SIGNED	Sentto X	Hul	TITLE Pro	2,	DATE 4-5-84
(This sp	ace for Federal or Stat	e office use)			
	VED BY	IF ANY:	TITLE		DATE
		- *			



Operator name and address:



MONTHLY OIL AND GAS PRODUCTION REPORT

PIXLEY, KENNETH DRAWER "O"	STATE	<i>[]</i>	ANDS		Utah Account No. — 117579	
ALTUS OK	73521				Report Period (Month/Year) _	12 / 85
ATTN: KENNETH PIXLEY					Amended Report	AND STREET, ST
MAX.000 A 1000	1_ / 1	<u> </u>	Deadustian	Volume		
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4300315585 00316 08N 07W 8	B3L1		- / · ·			<u>/// / CZ </u>
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4300320029 00316 08N 07W 8	BSLT			Pluse	ING AND REPORTING) DECERSE
ROZEL STATE #12						
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	market proper		·····	,		
•				الس	Date	
I have reviewed this report and certify the	e information	to be	accurate an	u compietę.	Date	
,						
Authorized signature					Telephone	
AUTOCIZED SIGNATULE						•



AUG 04 1986

JIVIDIÚN UF OIL

Kenneth Pixley Drawer O Altus, Okla. 73522 July 30, 1986

STATE OF Utah Natural Resources Oil, Gas, & Mining 355 W. North Temple 3 Triad Center Suite 350 Salt Lake City, Ut. 84180-1203

ATTENTION: R. J. FIRTH

Dear Mr. Firth:

Please refer to your 7/28/86 letter pertaining to the Monthly Oil & Gas Production & Disposition Reports.

I know longer have any oil leases; Lease was cancelled 1/2/85.

I am not behind in my reports. Have not been behind in my reports.

I have no delinquent reports.

Please look into this matter.

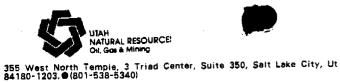
Yours truly,

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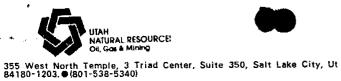


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Page ____ of _____

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:		_			
PIXLEY, KENNETH DRAWER "O" ALTUS OK 73521 ATTN: KENNETH PIXLEY				Utah Account No. N7570 Report Period (Month/Year) 8 / 86 Amended Report	
	D	D	Production Volume		
Well Name	Producing		Oil (BBL)	Gas (MSCF)	Water (BBL)
AP! Number Entity Location	BSLT	Ope.	On 1555/		
300315583 00316 08N 07W 8	5561				
300315584 00316 08N 07W 8	BSLT				
OZEL STATE #3 300315585 00316 08N 07W 8	BSLT				
OZEL STATE #4 300315586 00316 08N 07W 8	BSLT				
IOZEL STATE #5					
300315587 00316 08N 07W 8	BSLT				
ROZEL STATE #11 +300320029 00316 08N 07W 8	BSLT				
NOZEL STATE #12 300320030 00316 08N 07W 8	BSLT				
ROZEL STATE #15	BSL⊤	·····			
+300320031 00316 08N 07W 8 ROZEL POINT ST #16					
+300320032 00316 08N 07W 8	BSLT				
+300320033 00316 08N 07W 8	BSLT		·		
ROZEL STATE #24 4300320035 00316 08N 07W 8	BSLT				
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	т	OTAL			
Comments (attach separate sheet if nece	ssary)				. <u></u>
	1-4	L		e. Date ———	
have reviewed this report and certify the	intormation	IO De	accurate and complete	E. V 416	
Authorized signature	<u> </u>			Telephone	







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MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address	:				
•PIXLEY, KENNETH XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX			Utah Account No. N7570 Report Period (Month/Year) 11 / 91 Amended Report		
	I 5 4	T 5			
Well Name	Producing		Production Volume Oil (BBL)	0- (14005)	144 4 (PPL)
API Number Entity Location ROZEL STATE #1	Zone	Oper	OII (BRL)	Gas (MSCF)	Water (BBL)
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ROZEL STATE #2	BSLI	 			
4300315584 00316 08N 07W 8	BSLT	ŀ			1
ROZEL STATE #3	DSLI	ļ			
4300315585 00316 08N 07W 8	DELT	<u> </u>			Į
	BSLT				
ROZEL STATE #4					\
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ROZEL STATE #5		}			j
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ROZEL STATE #11					
4300320029 00316 08N 07W 8	BSLT				
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ROZEL STATE #15		ļ			
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ROZEL STATE #18					
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Comments (attach separate sheet if nece	ssarv)			•	
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have reviewed this report and certify the	information	to be	accurate and complete	Date	
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orized signature				Telephone	
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STATE/ACTIVE & PLUGGED WELLS BY COUNTY

BOX ELDER

A company

N7570/Pixley, Kenneth

43-003-15583 - Sec. 8, T. 8N, R. 7W - Rozel State #1 - SOW TD 178'/Last Insp. 5-23-84 (ML-3162 & ML-22574 or ML-22574A) ML-22574 or ML-22574A/Terminated & Bond Released 1-2-85 Orig. operator P0009/Charles King to P0007/Union Petrochemical

43-003-15585 - Sec. 8, T. 8N, R. 7W - Rozel State #3 - SOW TD 252'/Last Insp. 5-23-84

43-003-20029 - Sec. 8, T. 8N, R. 7W - Rozel State #11 - SOW TD 252'/Last Insp. 5-23-84

43-003-20033 - Sec. 8, T. 8N, R. 7W - Rozel State #18 - SOW TD 260'/Last Insp. 5-23-84

43-003-20035 - Sec. 8, T. 8N, R. 7W - Rozel State #24 - SOW TD 260'/Last Insp. 5-23-84

43-003-20032 - Sec. 8, T. 8N, R. 7W - Rozel Point St #16 - SOW TD 256'/Last Insp. 5-23-84

43-003-15584 - Sec. 8, T. 8N, R. 7W - Rozel State #2 - SOW TD 251'/Last Insp. 5-23-84

43-003-15587 - Sec. 8, T. 8N, R. 7W - Rozel State #5 - SOW TD 251'/Last Insp. 5-23-84

43-003-20030 - Sec. 8, T. 8N, R. 7W - Rozel State #12 - SOW TD 226'/Last Insp. 5-23-84

43-003-20031 - Sec. 8, T. 8N, R. 7W - Rozel State #15 - SOW TD 260'/Last Insp. 5-23-84

43-003-15586 - Sec. 8, T. 8N, R. 7W - Rozel State #4 - SOW TD 251'/Last Insp. 5-23-84

GRAND

P0379/Crest Oil Corp.

43-019-30316 - Sec. 2, T. 21S, R. 23E - Crest 2-8 - TA/SGW ? TD 1691'/Last Insp. 4-11-90 (ML-27798)

To N0020/Frank Adams, N1610/Thomas Harrison, N9675/Master Petro. ?

Norman H. Bangerter Governor Dee C. Hansen Executive Director Dianne R. Nielson, Ph.D. Division Director

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340

December 6, 1991

To:

R. J. Firth
D. T. Staley
J. L. Thompson

S. L. Schneider

From:

Lisha Romero

Re:

Wells listed under N0000/Unknown Operator on Fee and

State leases.

All wells previously listed under N0000/Unknown Operator on Fee and State leases, have been changed back to the last known operator, based on information obtained from the well files. Wells that are currently in Shut-In, OPS, or TA status have been assigned Entity numbers. Bond availability has been reviewed for wells on Fee land. Operator's with unplugged wells will now show up on the monthly turnaround report under the last known operator, except for those wells with TA or OPS status. However, due to the fact that the majority of these operators no longer exist, and the fact that the wells have been in unknown operator status for several years, the operator's addresses have been X'd out to prevent mailing of the monthly report.

My intentions are to follow-up with St. Lands/Ed Bonner on lease cancellations, assignments & bonding for wells drilled on State leases.

The Tax Commission will be notified of these changes, and asked to continue to hold off on any action until DOGM advises otherwise.

I hope this change assists in determining future action regarding the unplugged wells within the state. I have attached information for your review. Please advise me of any additional steps to take.

STATE LEASES

Crest Oil Corp./P0379 (ML-27798) *Well Stat/TA - No Monthly Report
Energy Resources Inc./P0799 (ML-26503 & *ML-35599/Lear Petroleum)
Grindstaff, E.C./P0384 (ML-27749)
International Research & Dev. Inc./P0798 (ML-15691 or ML-15651?)
Losey, Carl/P0390 (ML-39374 & *ML-3684/JCT, Inc.)
Main, W.S.L./P0800 (ML-41907)
Pixley, Kenneth/N7570 (ML-3162 & *ML-22574 or ML-22574A/Pixley ?)
Silengo, Charles L./N0900 (ML-27795) *Well Stat/OPS - No Mo. Report
United Technical Industries Inc./P0058 (ML-7567/*ML-39901/F. Adams)
Utah Oil Company/P0801 (ML-25424)
Utah Parks Petroleum Co./P0536 (ML-34169)

Vukasovich Drilling/N1050 (ML-42047)

· Comme	DIVISION COLL. GAS AND MINI	ING COL	
	DIVISION COMPLETE CARD MINE		5. Lease Designation and Serial Number:
SUNDI	RY NOTICES AND REPORTS	ON WELLS	8, # Indian, Allottee or Tribe Name:
			7, Unit Agreement Name:
Do not use this form for Use a	proposals to drift new wells, deepen adding wells, or to reer APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for	ner plugged and ebandoned wells. such proposels.	
1. Type of Well: OIL X GA	AS OTHER:		8. Well Name and Number:
2. Name of Operator:			9, API Well Number:
Kenneth Pixley			10. Field and Pool, or Wildcat:
3. Address and Telephone Number: Rt. 1. Box 132 A	Altus, OK <u>73521 (580)</u>	482-4082	Rozel Point
4. Location of Well OSN O7W			D E1 J
Footages:	o, ook om 17		County: Box Elder
QQ, Sec.,T.,R,M.:			State: Utah
11. CHECK APP	PROPRIATE BOXES TO INDICATE !	NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
	OTICE OF INTENT		QUENT REPORT
	(Submit in Duplicate)		Original Form Only)
Abandon	New Construction	☐ Abandon	New Construction
Repair Casing	Pull or Alter Casing	☐ Repair Casing ☐ Change of Plans	☐ Pull or Alter Casing ☐ Reperforate
☐ Change of Plans ☐ Convert to Injection	☐ Recomplete ☐ Reperforate	Convert to Injection	☐ Vent or Fiare
Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
Multiple Completion	☐ Water Shut-Off	☐ Other	- .
See Below			
``		Date of work completion	
Approximate date work will s	tart		and Recompletions to different reservoirs on WELL
		COMPLETION OR RECOMPLETION REP • Must be accompanied by a cement verifi	
	· · · · · · · · · · · · · · · · · · ·		
 DESCRIBE PROPOSED OR COMPL vertical depths for all markets and a 	LETED OPERATIONS (Clearly state all pertinent details, and some pertinent to this work.)	give pertinent dates. If well is directionally drille	d, give subsurface locations and measured and true
43-003-15583 43-003-15584	•	These wells were plugg	ged by E.P.A.
43-003-15586		Thoro was no dancon to	fwash water ut
43-003-20033		There was no danger to are covered by appróxi	mately 3' of salt water.
43-003-30024			
43-003-30025	UNECEILA ETULI	We plan to reopen thes	e wells in the near
		future. The timing is	r in the Great Salt Lake.
	[\\	y the control of water	I In the order bars and
1		COPY SENT TO OPERATOR	
	DIV. OF OIL, GAS & MINING	Date: 5-20-99 initials: CHO	
13.			
No. 2 5 1 2 2 2 2	the Pichan I	Tille: Passident	Date: 3-26-99
realité à organisme; <u>rocozyy</u>	and saying a		
(This space for State use only)	Funda)	More.	,
Par Edie Trimo	ner C Forestry, Fire, & is pending bonding.	State Lunds Assigning	ent of Pixley's lease
to be home for	is reader to be	They have no bond a	Accept disvisal lease
Elin 1 17	is forming wonding.	7	Utah Division of
Edie to notity	L () See Instruction	os on Revense Side)	il, Gas and Mining
(MOA) lease holder pos	ors bonds		5-19-99
Othewise, Th	his may real to go to B	By:	
for plugging or	der.	ъу	

STATE OF UTAH	FORM 9	
DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS AND MINI	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3162	
SUNDRY NOTICES AND REPORTS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form	It bottom-hole depth, reenter plugged wells, or to	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL GAS WELL OTHER		8. WELL NAME and NUMBER: Rozel State 1
2. NAME OF OPERATOR: Orphan - No Responsible Operator		9. API NUMBER: 4300315583
3. ADDRESS OF OPERATOR:	PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT: Rozel Point
NA CITY NA STATE NA ZIP N 4. LOCATION OF WELL		
FOOTAGES AT SURFACE: 726' FSL, 983' FEL		COUNTY: Box Elder
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 8 8 N 7 V	v s	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE		RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	DEPENDENT OUR PENT FORMATION
NOTICE OF INTENT	DEEPEN FRACTURE TREAT	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL
(Submit in Duplicate) Approximate date work will start: CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
CASING TEP AIR	OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)	PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion: COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER:
12/31/2005 CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	
Well was plugged under the Utah Division of Oil, Gas and Mi # 2005-01 on December 31, 2005. Rods and tubing were presented depth of 100' to surface. A subsurface dry hole mapart of an areal cleanup and well plugging project of the Roze Fire and State Lands (see attached MOA) that commenced 2005. Cost of Rozel Point work was approximately \$165,000 Clint Dworshak, Environmental Scientist of DOGM.	ining's Orphan Well Plugging P bulled from well and casing was narker was put in place and the el Point oil field in coordination on December 6, 2005 and that v 0.00. Work was witnessed by D	rogram Contract # 066161, Project filled with Type II cement from a location cleaned of junk. This was with the Utah Division of Forestry, was completed on December 31,
		1 8 2007
	OF OIL	, GAS & MINING
NAME (PLEASE PRINT) Dustin K. Doucet	TITLE Petroleum Engin	eer/Program Manager
SIGNATURE VSV V Jut	1/18/2007	

(This space for State use only)

MEMORANDUM OF AGREEMENT REGARDING PLUGGING ABANDONED OIL WELLS ON GREAT SALT LAKE

WHEREAS, the Division of Forestry, Fire and State Lands (FFSL) is responsible for management of Utah's sovereign lands, including Great Salt Lake; and

WHEREAS, there are several abandoned oil wells on the bed of Great Salt Lake at Rozel Point; and

WHEREAS, these wells present substantial risk of leaking hydrocarbons into navigable water of Great Salt Lake: and

WHEREAS, there is no identifiable person responsible for the wells and there are no bonds in place to cover costs of properly plugging the wells; and

WHEREAS, FFSL desires to properly plug the wells to prevent such leakage; and

WHEREAS, the legislature has appropriated \$50,000 in non-lapsing funding to FFSL to help remedy the abandoned well situation in cooperation with the Division of Oil, Gas and Mining (DOGM)

WHEREAS, DOGM has the authority and expertise to arrange for plugging and reclamation of abandoned oil wells, and

WHEREAS, funding available to DOGM for plugging the wells on Great Salt Lake is insufficient to cover costs of plugging; and

WHEREAS, the present low water level of Great Salt Lake presents an opportune time for relatively low cost of plugging the wells; and

WHEREAS, DOGM desires to properly plug the wells; and

WHEREAS, FFSL agrees to release DOGM from all future liability associated with the abandoned wells.

NOW, THEREFORE, it is mutually agreed that FFSL will transfer \$50,000 to DOGM to arrange for plugging and reclamation of the wells at a time of DOGM's choosing. FFSL will be responsible for a State Historical Preservation Office consultation for cultural or historical resources and will advise DOGM in writing of the results of that consultation. issue the contract and direct the plugging and reclamation plan according to said contract. The reclamation project shall include clean-up of oil field debris to the extent funding allows.

A. Joel Francisen, Director

Division of Forestry, Fire and State Lands

Mary Ann Wright, Acting Director

Division of Oil, Gas and Mining

ate: 3/16/2005

Date: